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=> d his

     (FILE 'HOME' ENTERED AT 19:28:57 ON 30 JUL 2007)
     FILE 'CA' ENTERED AT 19:29:07 ON 30 JUL 2007
L1   2918 S (CAMP(2A)RESPONSIVE(2A)ELEMENT(2A)BINDING OR CREB) AND KINASE
L2      8 S L1 AND QUENCH?
L3     81 S L1 AND FLUORES?
L4     11 S L2-3 AND PY<2000
L5     32 S L2-3 AND PATENT/DT
     FILE 'BIOSIS' ENTERED AT 19:37:38 ON 30 JUL 2007
L6     10 S L4
     FILE 'MEDLINE' ENTERED AT 19:38:02 ON 30 JUL 2007
L7     17 S L4
     FILE 'CA, BIOSIS, MEDLINE' ENTERED AT 19:39:33 ON 30 JUL 2007
L8     52 DUP REM L4 L5 L6 L7 (18 DUPLICATES REMOVED)

=> d bib,ab l8 1-52

L8   ANSWER 44 OF 52  CA  COPYRIGHT 2007 ACS on STN
AN   125:27565  CA
TI   Analysis of the structural properties of cAMP-responsive element-binding
     protein (CREB) and phosphorylated CREB
AU   Richards, Jane P.; Bachinger, Hans Peter; Goodman, Richard H.; Brennan,
     Richard G.
CS   Dep. Biochem. Mol. Biol., Oregon Health Sci. Univ., Portland, OR, 97201,
     USA
SO   Journal of Biological Chemistry (1996), 271(23), 13716-13723
AB   The transcription factor CREB (cAMP responsive element binding protein)
     is activated by protein kinase A (PKA) phosphorylation of a single
     serine residue.  To investigate possible mechanisms of CREB regulation
     by phosphorylation, we initiated a structural and biophys.
     characterization of the full-length, wild-type CREB protein, an altered
     CREB protein (CREB/SER) in which the three cysteine residues in the DNA-
     binding domain were replaced with serine residues and a truncated
     protein (ACT265) which encompasses the entire activation domain of CREB.
     CD reveals that CREB and CREB/SER have identical secondary structures
     and contain approx. 20% α-helix, 9% β-strand, 34% β-turn, and 37% random
     coil structures.  PKA phosphorylation does not alter the CD spectra, and
     bound to DNA.  Protease cleavage patterns indicate that PKA
     phosphorylation does not induce a global conformational change in CREB.
     Furthermore, PKA phosphorylation does not change the DNA binding
     affinity of CREB for either canonical or non-canonical CRE sequences as
     measured by a fluorescence anisotropy DNA binding assay.  Since PKA
     phosphorylation of CREB results in its specific binding to the
     transcriptional coactivators CREB-binding protein and p300, we suggest
     that the PKA activation of CREB occurs by the prodn. of specific,
     complementary interactions with these proteins, rather than through the
     previously proposed mechanisms of a phosphorylation-dependent
     conformational change or increased DNA binding affinity.

=> log y
STN INTERNATIONAL LOGOFF AT 19:40:21 ON 30 JUL 2007
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